

Standby Power Systems **NEW**

Standby Power Systems

General

Siemens offers a complete line of standby power systems. From standby power generators, portable generators, transfer switches, and manual transfer kits, Siemens has all of your back up power needs covered. You can count on Siemens to deliver high quality, industry leading designs. Our standby generators are designed for quiet operation with sound attenuated enclosures, specially designed fans and radiators, and a high tech enclosure material that provides excellent sound absorption.

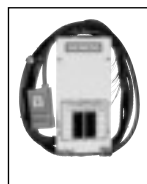
Standby Generators

- Powered by natural gas or liquid propane vapor
- Permanently attached to the house via a fuel line and conductors hard wired to the load center
- Completely automatic – detects power outages and switches power over to the generator (automatic transfer switch required)
- Restores power to pre-selected circuits or entire building
- Returns power to utility once restored
- Self tests weekly
- Available in 7 to 150 kW units, single and three phase



Automatic Transfer Switches

- Completes the automatic system
- Once activated by the generator controller, switches load to and from generator
- Available in 100 to 800A versions, single and three phase, indoor and outdoor



Portable Generators

- Gasoline fueled
- 15 and 17.5 kW units available, single phase
- Provided with 7 various receptacles and circuit protection



Mechanical Interlock Kits

- Interlocks two main breakers together (generator and utility) such that both cannot be "ON" at the same time
- Wide variety of kits available to convert most Siemens load centers and meter combinations into standby power panels



For more information including a detailed selection and application guide, generator sizing guides, cut sheets, detailed dimensions, owner's manuals, and other useful information, visit our web site at www.sea.siemens.com/generators. For technical support, call (800) 844-0029.

Standby Power Systems

Standby Generators

Selection

7 through 150 kW
 1-Phase, 120/240 Volts AC
 3-Phase, 120/208 Volts AC
 3-Phase, 277/480 Volts AC

Features and Ratings

- UL 2200 Listed
- Natural gas or liquid propane vapor options
- Composite mounting pad provided on air cooled units
- Automatic Transfer Switch compatibility:
 Air cooled units compatible with "ST" and "SR" type
 20-60 kW units compatible with "SR" type
 70-150 kW units compatible with "X" type
- 16 kW units and larger are provided with the patented Quiet Test™ feature. This feature allows the generator to run at lower RPM's during the weekly test cycle, greatly reducing noise pollution.
- Rugged, textured paint finish provides superior corrosion resistance
- Aluminum enclosure option ideal for harsh environments



Liquid Cooled Generator



Air Cooled Generator

Catalog Logic Table

Siemens Standby Generator	kW Rating	Voltage R=120/240, 1Ø C=120/208, 3Ø I = 277/480, 3Ø	Fuel G=Natural Gas P=Propane B=Accepts both	Enclosure A=Aluminum S=Steel
SG	007	R	B	S
SG	010	R	B	S
SG	013	R	B	S
SG	016	R	B	S, A
SG	018	R, C	B	S, A
SG	020	R, C	B	S, A
SG	025	R, C	B	S, A
SG	035	R, C, I	B	S, A
SG	045	R, C, I	B	S, A
SG	060	R, C, I	G, P	S, A
SG	070	R, C, I	G, P	S, A
SG	080	R, C, I	G, P	S, A
SG	100	R, C, I	G, P	S, A
SG	130	R, C, I	G, P	S, A
SG	150	R, C, I	G, P	S, A

Generator Information

Dimensions (inches)	Controller Type	Cooling System	Transfer Switch Compatible
48 x 24 x 29	R	Air	ST, SR
48 x 24 x 29	R	Air	ST, SR
48 x 24 x 29	R	Air	ST, SR
48 x 24 x 29	R	Air	ST, SR
72 x 30 x 38	R	Liquid	SR
72 x 30 x 38	R	Liquid	SR
72 x 30 x 38	R	Liquid	SR
77 x 34 x 46	R	Liquid	SR
77 x 34 x 46	R	Liquid	SR
89 x 34 x 48	R	Liquid	SR
97 x 37 x 47	H	Liquid	X
116 x 37 x 55	H	Liquid	X
116 x 37 x 55	H	Liquid	X
116 x 37 x 55	H	Liquid	X
116 x 37 x 55	H	Liquid	X

Catalog number example

Requirements:

- Standby Generator
- 35 kW
- 3-Phase, 120/208 V~
- Natural Gas
- Aluminum Enclosure

1	2	3	4	5
SG	035	C	B	A

Example = SG035CBA

Standby Power Systems

Standby Generator Controllers

Selection

Siemens standby generators are provided with controllers. The primary purpose of the controller is to monitor utility power, operate the automatic transfer switch, control the weekly self test cycle, and to monitor the generator for any potential system faults. There are two types of controllers, the “R” and “H” types.

“R” Type Controller



The “R” type controller is provided on all 7 through 60 kW generators. These controllers are compatible with the “ST” and “SR” type transfer switches. Built in governor control is provided, along with LED displays for potential system faults.

The automatic transfer switch, which is sold separately, is controlled by the R controller.

Control Functions

- Full system monitoring
 - Oil Pressure
 - Coolant Temperature
 - Engine Speed
 - Coolant Level
 - Cranking Time
 - Starter Lockout
 - Utility Sensing
 - Quiet Test™

LED Indicators

- Over Speed
- Over Crank
- Low Oil Pressure
- High Coolant Temperature
- Low Coolant Level
- Low Fuel Pressure
- Low Battery Voltage
- Quiet Test™ Control

“H” Type Controller



The “H” type controller is provided on all 70 through 150 kW generators. These controllers are compatible with the “X” type transfer switches.

Control Functions

- All R control functions plus:
- Full range standby operation
 - Full system status
 - 3Ø AC Volts and current
 - Alternator frequency
 - kW, kVA, power factor
 - Fuel pressure
 - Alarms and warnings
 - Transfer switch status
 - Operating hours
 - Service reminders
 - Trending
 - Utility Sensing
 - Fault protection for generator windings
 - 3Ø sensing voltage regulator
 - Isochronous speed regulation

System Features

- Two 4-line 20-character LCD displays
- Engine governor and voltage regulator built into controller
- Hermetically sealed circuit board in a die-cast aluminum enclosure
- Waterproof connections
- Audible alarm
- Service-friendly diagnostics
- Built in PLC for user I/O's
- Integrated automatic transfer switch controller for Siemens “X” type transfer switches
- Advanced engine sensors eliminate false signals and interference
- Quiet-Test™ control
- Industry standard 2-wire start

Standby Power Systems

Portable Generators

Selection

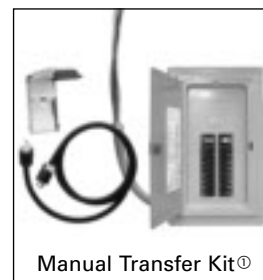
Portable Generators

Portable generators are contained in a steel frame with wheels for easy relocation. The generators are powered by gasoline stored in a provided gas tank. These generators are ideal for locations where space or local codes do not allow a permanently installed standby generator. They are also great for construction site temporary power, eliminating the need for temporary power poles and utility hook ups.

Features and Ratings

- Provided with 7 receptacles
 - 12V DC, 10A
 - 120V AC, 20A Duplex
 - 120V AC, 20A Duplex GFCI
 - 120V AC, 30A Locking Type (2)
 - 120/240V AC, 30A Locking Type
 - 120/240V AC, 50A
- Full pressure lubrication
- Single point lifting
- Spin-on oil filter
- Automatic idle control
- Dimensions (in): 39 x 31 x 49
- 16 gallon fuel tank
- Low oil pressure shutdown
- Solid state voltage regulator
- GFCI protection
- Anti-vibration system
- Circuit breakers included
- Battery charge cables
- Maintenance free battery
- Full 1-1/4" tubular frame
- Wheel kit
- Electronic governor
- Tune-up kit

Catalog Number	PG015	PG017 ^①
Rated Power	15 kW	17.5 kW
Surge	22.5 kW	26.2 kW
Rated Amps @ 60Hz 120/240, 1Ø, 1.0 pf	62.5	73.0
Engine RPM	3,600	3,600
Engine Cooling	Air	Air
Fuel Capacity (gallons)	16	16
Dimensions (inches)	39 x 31 x 49	39 x 31 x 49
Weight (lbs)	450	475



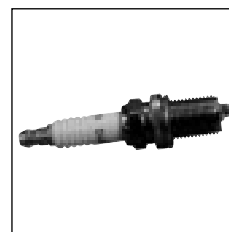
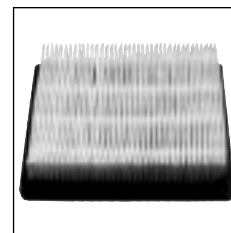
Manual Transfer Kit^①

Standby and Portable Generator Maintenance Kits

Maintenance Kits

Generators require routine servicing just like any other engine. It is recommended that the oil and filters be changed once a year, or every 100 hours of use, whichever comes first. Maintenance kits are provided for each engine type and include an oil filter, air filter, spark plugs, and tools.

Catalog Number	Description	Usage
GENMKIT1	Oil and air filter kit	7 kW
GENMKIT2	Oil and air filter kit	10 kW
GENMKIT3	Oil and air filter kit	13, 16 kW
GENMKIT4	Oil and air filter kit	20 kW
GENMKIT5	Oil and air filter kit	25 kW
GENMKIT6	Oil and air filter kit	35, 45 kW
GENMKIT7	Oil and air filter kit	60 kW
GENMKIT8	Oil and air filter kit	70, 80, 130, 150 kW
GENMKIT9	Oil and air filter kit	100 kW
GENPAINT	Touch up paint	All devices
PORTMKIT1	Oil and air filter kit	Portable 15, 17.5 kW



① The 17.5 kW portable generator is provided with a manual transfer kit. The kit includes a load center (G2020L1125CU), factory installed interlock kit (ECSBP001), a 50A utility main, 50A generator main, a

mixture of branch circuits, a 15' power cord, and an inlet box as shown. The kit is not sold separately and is not provided on the 15 kW portable generator.

Standby Power Systems

Transfer Switches

Selection

Automatic Transfer Switches

There are 3 types of transfer switches. "ST" type transfer switches are provided with branch circuits are compatible with the air cooled generators. "SR" type are compatible with generators containing the "R" type controller (7-60 kW). The "X" type transfer switches are compatible with the "H" type controller (70-150 kW generators).

Transfer Switch Catalog Number Logic

Transfer Type	Enclosure Type T=Indoor R=Outdoor	Amperage	Voltage R=120/240V 1Ø C=120/208 3Ø I = 277/480V 3Ø	Service Disconnect D=Provided	Branch Circuits Included
S	T	100	R		10, 12, 16
S	R	100, 200	R	D	
S	R	100, 200	R, C, I		
S	R	400	R, C	D	
X	R, T	100, 150, 200, 300, 400, 600, 800	R, C, I		

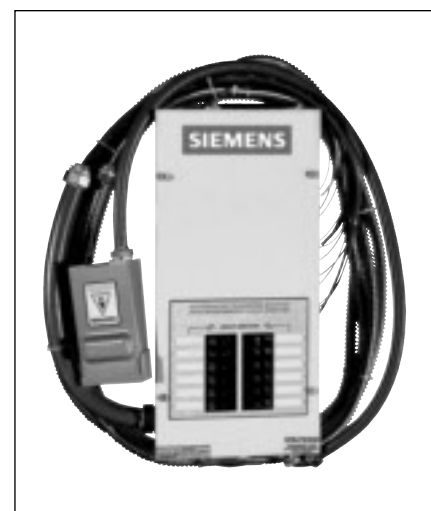
"ST" Type Transfer Switches

Transfer Switches With Back Up Circuits

Siemens offers 3 models of automatic transfer switches with back up circuits. These panels provide transfer capability to a select number of critical circuits, as opposed to the entire house. For the chosen critical circuits, the conductors in the main house panel are removed from the breaker and connected with wire nuts to the pre-wired conductors on the transfer switch.

Features and Ratings

- UL 1008 Listed
- 100A
- 120/240, 1Ø
- Indoor NEMA Type 1
- Open Transition
- 10KAIC
- Express install kit included
- Dimensions (inches) 27 x 13 x 7
- Conduit length: 30 feet from ATS to junction box, 5 feet from junction box to generator, 2 feet from ATS to load center
- Suitable for use only on air cooled products (7-16 kW)



Catalog Number	Breakers Provided						Suggested Use
	Q250	Q240	Q230	Q220	Q120	Q115	
ST100R12 (12 ckt)			1	1	3	3	10 kW Generators
ST100R10 (10 ckt)		1	1		3	5	13 kW Generators
ST100R16 (16 ckt)	1	1		1	5	5	16 kW Generators

Standby Power Systems

"SR" Type Transfer Switches

Selection

Features and Ratings

- UL 1008 Listed
- 100-400A
- Outdoor NEMA Type 3R
- 1-Phase and 3-Phase
- Open Transition
- Service entrance rated option
- Compatible with "R" type controllers found in 7-60 kW generators



Catalog Number	Amp	Voltage			NEMA			Service Disconnect Included
		120/240 1Ø	120/208 3Ø	277/480 3Ø	1	3R	12	
SR100R	100	●				●		
SR100RD	100	●				●		●
SR100C	100		●			●		
SR100I	100			●		●		
SR200R	200	●				●		
SR200RD	200	●				●		●
SR200C	200		●			●		
SR200I	200			●		●		
SR400R	400	●				●		
SR400RD	400	●				●		●
SR400C	400		●			●		

AMPS	100	100*	200	200*	400	400*	400
Voltage	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø	120/240 1Ø 120/208 3Ø	120/240 1Ø	277/480 3Ø
Withstand Rating 1Ø 3Ø	10 kAIC 14 kAIC	10 kAIC	10 kAIC 25 kAIC	10 kAIC	18 kAIC 18 kAIC	18 kAIC	35 kAIC
Dimensions 12/240 & 120/208 277/480	24 x 20 x 7 36 x 24 x 10	24 x 13 x 7	24 x 15 x 7 48 x 30 x 12	24 x 13 x 7	36 x 24 x 10	40 x 30 x 10	48 x 30 x 12
Weight (lbs) 120/240 1Ø 120/208 3Ø 277/480 3Ø	31 49 95	39	31 49 105	40	88 107	100	105

* Service entrance rated, main disconnect provided (type QP for 100A, QN for 200A).

Standby Power Systems

"X" Type Transfer Switches

Selection

Features and Ratings

- UL 1008 Listed
- 100-800A
- Indoor NEMA Type 1 and 12
- Outdoor NEMA Type 3R
- 1-Phase and 3-Phase options
- Open Transition
- Compatible with "H" type controllers found in 70-150 kW generators
- 7 day programmable exerciser



Catalog Number	Amp	Voltage			NEMA		
		120/240 1Ø	120/208 3Ø	277/480 3Ø	1	3R	12
XT100R	100	●			●		
XT100C	100		●		●		
XT100I	100			●	●		
XR100R	100	●				●	
XR100C	100		●			●	
XR100I	100			●		●	
XT150R	150	●			●		
XT150C	150		●		●		
XT150I	150			●	●		
XR150R	150	●				●	
XR150C	150		●			●	
XR200I	200			●		●	
XT200R	200	●			●		
XT200C	200		●		●		
XT200I	200			●	●		
XR200R	200	●				●	
XR200C	200		●			●	
XR200I	200			●		●	
XT300R	300	●			●		
XT300C	300		●		●		
XT300I	300			●	●		
XR300R	300	●				●	
XR300C	300		●			●	
XR300I	300			●		●	
XT400R	400	●			●		
XT400C	400		●		●		
XT400I	400			●	●		
XR400R	400	●				●	
XR400C	400		●			●	
XR400I	400			●		●	
XT600R	600	●					●
XT600C	600		●				●
XT600I	600			●			●
XR600R	600	●				●	
XR600C	600		●			●	
XR600I	600			●		●	
XT800R	800	●					●
XT800C	800		●				●
XT800I	800			●			●
XR800R	800	●				●	
XR800C	800		●			●	
XR800I	800			●		●	

AMPS	100	150	200	300	400	600	800
Voltage	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø 120/208 3Ø 277/480 3Ø	120/240 1Ø 120/208 3Ø 277/480 3Ø
NEMA Rating	1 / 3R	1 / 3R	1 / 3R	1 / 3R	1 / 3R	12 / 3R	12 / 3R
Withstand Rating 120/240 & 120/208 277/480	14 kAIC 14 kAIC	10 kAIC 25 kAIC	10 kAIC 25 kAIC	18 kAIC 35 kAIC	18 kAIC 35 kAIC	42 kAIC 42 kAIC	65 kAIC 65 kAIC
Dimensions 120/240 & 120/208 277/480	36 x 24 x 10 36 x 24 x 10	36 x 24 x 10 48 x 30 x 12	36 x 24 x 10 48 x 30 x 12	36 x 24 x 10 48 x 30 x 12	36 x 24 x 10 48 x 30 x 12	66 x 36 x 20 66 x 36 x 20	66 x 36 x 20 66 x 36 x 20
Weight (lbs) 120/240 & 120/208 277/480	105 120	110 145	110 145	130 165	130 165	650 650	680 680

Standby Power Systems

Manual Transfer Interlock Kits

Manual Transfer Interlock Kits

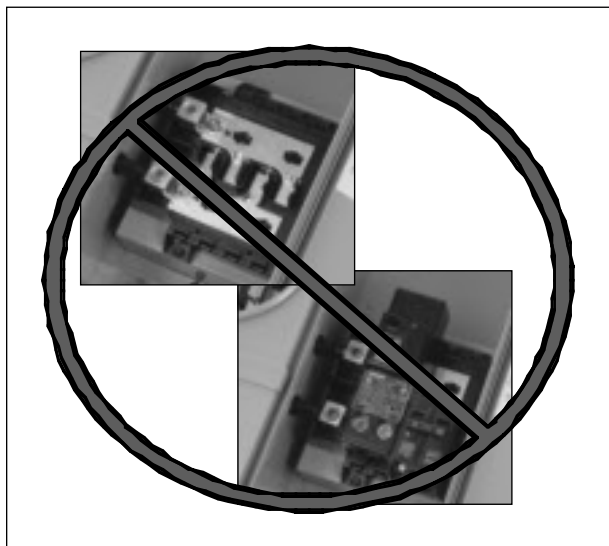
These interlock kits are used to interlock two main breakers in a load center or meter combination together so that both cannot be "ON" at the same time. This is required to prevent dangerous feedback between the two power systems. These kits work on most Siemens load centers and meter combinations.

Standard Features

- UL listed for use in most Siemens load centers and meter combinations
- Suitable for use with optional standby systems in accordance with article 702 of the National Electric Code®
- Corrosion resistant finish
- Easy assembly requiring no modifications to the load center or meter combination
- Remains attached to the main breakers when load center cover is removed

Misapplications

Follow all directions and precautions detailed in the instructions sheets. Do not use the interlock kits in such a manner that power is not prevented from being fed back to the utility lines when the utility main breaker is in the "OFF" position. Examples would be meter combinations in which the conductors from the meter land on lugs, as opposed to a main breaker (see below).



Selection

Description	Catalog Number Breaker Types Utility / Standby	Image
Attaches to two double pole circuit breakers across from one another as shown	ECSBPK01 QP / QP	
Attaches to two double pole circuit breakers side by side to one another as shown	ECSBPK02 QP / QP	
Used on Ultimate main breaker load centers 150-225A as shown	ECSBPK03 MBK / QP	
Used on Ultimate main breaker load centers 100-125A as shown	ECSBPK04 MBK / QP	
Attaches to type QN main breakers and double pole breakers as shown	ECSBPK05 QN / QP	
Attaches to type QNR main breakers and double pole breakers as shown	ECSBPK06 QNR / QP	
Attaches to two type QNR or QN main breakers as shown	ECSBPK07 QN(R) / QN(R)	
Attaches to two type QNR or QN main breakers as shown	ECSBPK08 QPP / QP	

Standby Power Systems

Manual Transfer Interlock Kits

Selection

Acceptable Usage of Interlock Kits by Load Center/Meter Combination

Siemens Outdoor Load Centers	
W0816B1200CT	3
W0816L1200CT	1 2 3 5 7
W0816ML1125CU	1 2
W1212L1125CU	1 2 4
W1224B1100CU	4
W1224L1125CU	1 2 4
W1224L1200CU	1 2 3 5 7
W1224L1225CU	1 2 3 5 7
W1624B1100CU	4
W1624L1125CU	1 2 4
W2020B1100CU	4
W2030L1150CU	1 2 3 5 7
W2040B1200CU	3
W2040L1200CU	1 2 3 5 7
W3040B1200CU	3
W3040L1125CU	1 2 4
W3040L1200CU	1 2 3 5 7
W4040B1200CU	3
W4040L1200CU	1 2 3 5 7
W4242B1225CU	3
W4242L1225CU	1 2 3 5 7

Siemens Indoor Load Centers	
E0816ML1125*	1 2
E1020MB1100FCGP	1 2
E1224ML1100*	1 2
G1212L1125*	1 2 4
G1224B1100*	4
G1224L1125*	1 2 4
G1224L1200CU	1 2 3 5 7
G1624B1100*	4
G1624L1125*	1 2 4
G1630B1150	3
G2020B1100*	4
G2020L1125*	1 2 4
G2030B1150*	3
G2030L1125CUSG	1 2 4
G2030L1150*	1 2 3 5 7
G2040B1200*	3
G2040L1200*	1 2 3 5 7
G2424B1100CU	4
G2424B1125	4
G2424L1125	1 2 4
G2430B1150	3
G2430L1125CUSG	1 2 4
G2440B1200	3
G2440L1125CU	1 2 4
G2440L1200*	1 2 3 5 7
G3030B1100CU	4
G3030B1150*	3
G3030L1200*	1 2 3 5 7
G3040B1200*	3
G3040L1125CU	1 2 4
G3040L1200*	1 2 3 5 7
G4040B1200*	3
G4040L1125CU	1 2 4
G4040L1200*	1 2 3 5 7
G4242B1225CU	3
G4242L1225CU	1 2 3 5 7

Siemens Meter Combinations	
MC0816B1150RTH	5 7
MC0816B1150T	5 7
MC0816B1150TH	5 7
MC0816B1200FCTM	2
MC0816B1200RT	5 7
MC0816B1200RTB	5 7
MC0816B1200RTH	5 7
MC0816B1200SCTM	2
MC0816B1200T	5 7
MC0816B1200TH	5 7
MC0816B1350RLTM	5 7
MV0816B1400RLTM	5 7
MC1224B1100FEC	2
MC1224B1100SEC	2
MC1224B1125	1 2
MC1224B1125FEC	2
MC1224B1125SEC	2
MC1632B1100SEC	2
MC1632B1125FEC	2
MC2040B1150	5 7
MC2040B1200	5 7
MC2040B1200R	5 7
MC2442B1200FEC	2
MC2442B1200SEC	2
MC3040B1200SECW	5 7
MC3042B1200FED	3
MC3042B1200SED	3
MC3042B1225FED	3
MC3042B1225SED	3
MC4040B1200SECW	5 7
MC0816B1200RJBT	8
MC0816B1150RJBT	8
MC0816B1200RCT	8
MC0816B1150RCT	8
MC0816B1200CT	8
MC0816B1150CT	8
MC2040B1150RCT	9
MC2040B1150CT	9
MC2040B1200RCT	9
MC2040B1200CT	9

Notes

- Numbers 1 through 9 in these tables represent the interlock kit number. Example: 1 = ECSBPK01
- Standby power interlock kits are not intended for use with AFCI, GFCI, 3-pole, or ½" frame breakers
- Standby power interlock kits are not intended for use with 4 space, 125A load centers
- These kits are not intended for use in meter combination devices where the conductors coming from the meter compartment land on lugs in the load center side, as opposed to a main breaker. Examples would include devices that start with MM0406L, MM0606L, or MC1212L